

RasaAndishan Moj Pardaz

رسا اندیشان موج پرداز (دانش بنیان)



طراح و سازنده انواع آشکارسازهای خطی و دوربین های تصویربرداری

- Robust & Reliable Hardware & Software Architecture
- Multi Interface Connectivity (USB2.0,USB3.0,Ethernet)
- Cross Platform - Linux & windows Application Support
- Plugin Based API and Sophisticated FlowGraph Structure
- VariousSDK(C#,C++,MATLAB,VB.Net,Python,LabVIEW)Included



RA-ASC-0234



Overview

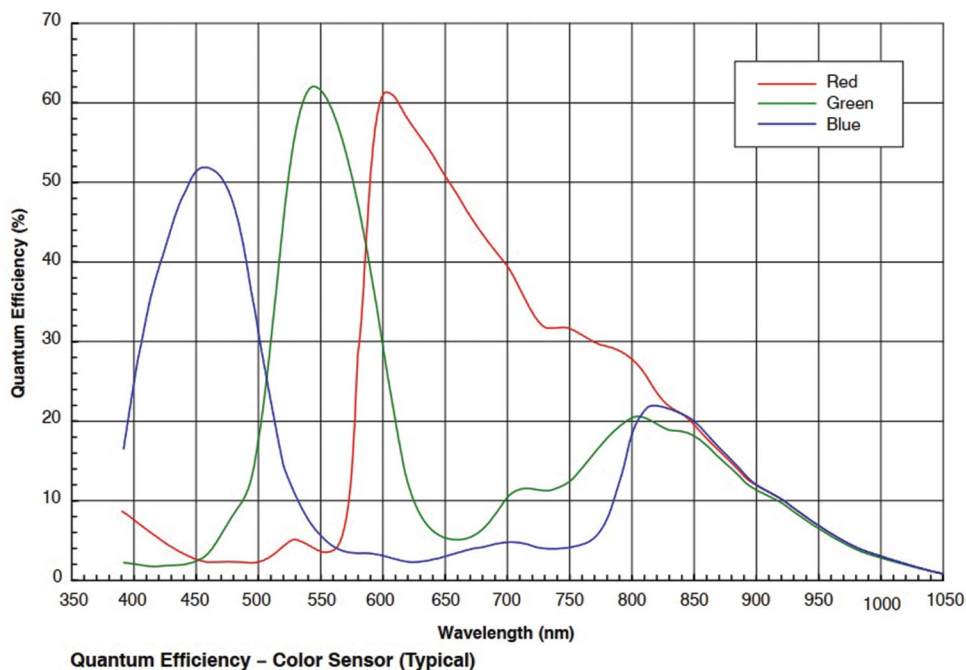
RA-ASC-0234 is a USB3.0 Bus Powered Area Scan Camera that incorporates a 1920 x 1200 Pixels CMOS array with Pixel Size of 3 μm by 3 μm . It is capable of detecting light in the 400- 1100 nm range. The Frame rate of This cost effective Color Area scan camera is up to 50 Hz. This camera Supports External Triggering at rate of up to 50 Hz.

GUI Features

- Operates up to 10 Cameras Simultaneously without loss of any data
- Cross Platform Software with Auto-Detection of Compatible Cameras
- Recording @ Predefined Counts, Time, Cache Size and Capture Size
- Best Responsiveness by Separate Threads of Data Acquisition, Processing and Monitoring

Application

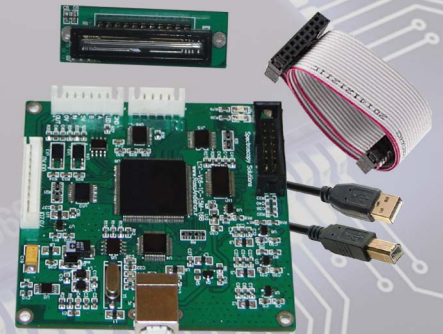
RA-ASC-0234 is Designed for Applications in Optics, Imaging, Biology, Digital Image Correlation(DIC), Particle image velocimetry(PIV), Industrial Process Control, General Purpose Laboratory Use



Specification

Sensor Spec	
Sensor Type	Color CMOS Area Image Sensor
Light Spectrum	Visible
Pixel Size	3 um x 3 um
Pixel Height	3 um
Pixel Width	3 um
Effective Pixels	1920 x 1200
Image Resolution	2.3 MP
Image Size (HxV)	5.76 x 3.6 (mm)
Max Pixel Frequency	~150 MHz
Max Frame Rate	up to 50 Hz @ 2.3 MP
Shutter Type	Global Shutter
Exposure Control	✓
AOI Support	✓
Frame Rate @ AOI	up to 50 Hz @ 2.3 MP
Max Trigger Rate	up to 488 Hz @ 100 pixels x 100 pixels
Color Depth	8 Bit per Pixel
Brightness Coefficient	512 Analog Steps
Contrast Coefficient	1024 Analog Steps
Trigger Signal	TTL 5 V and 3.3 V
Trigger Mode	Free Running, Software Trigger, Hardware Trigger
Hardware Trig Polarity	Rising Edge, Falling Edge, Both Edges, High Level, Low Level
Trigger Factor	0 To 65535
Max Power Usage	3.5 Watt Without External Power Requirements
Min Trigger Pulse Length	33 ns
Trigger Delay	0 to 16 Min - in 1 us Steps
Interface	Super Speed USB 3.0 (1.2 Gbit/s)
Weight Dimension	80 gr (Without Lens) 60 mm x 60 mm x 40 mm
Temperature Range	- 48 to + 85 (°C)

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حکیمیه، میدان فجر، خیابان خرم، خیابان سحر، کوچه پگاه ۶، پلاک ۱۱، واحد ۷

www.RasaAndishan.ir Info@RasaAndishan.ir ۰۲۱-۷۷۰۱۳۶۸۷